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	Application No.	Applicant(s)
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Notice of Allowability	10/042,812 Examiner	CHIANG, CHENG-LIEN Art Unit
Notice of Allowability	Examiner	Art Onit
	Chris C. Chu	2815
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>afterfinal amendment</u>	filed 9/10/04.	
2. The allowed claim(s) is/are <u>1-120</u> .		
3. \square The drawings filed on $___$ are accepted by the Examine	r.	
4. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv	e been received. e been received in Application No cuments have been received in this in of this communication to file a reply of this application. MENT of this application. Mitted. Note the attached EXAMINER' es reason(s) why the oath or declaration.	national stage application from the complying with the requirements S AMENDMENT or NOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ⊠ including changes required by the attached Examiner' Paper No./Mail Date		ffice action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	Sit of BIOLOGICAL MATERIAL IN FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Proffnercen's Retent Proving Review (PTO-948)	5. ☐ Notice of Informal P 6. ☐ Interview Summary	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./Mail Dat	
 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 12/22/03; 1/27/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit 	08), 7. 🔯 Examiner's Amendr	nent/Comment ent of Reasons for Allowance
of Biological Material	9. Other	

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DETAILED ACTION

Examiner's Comments

1. The following issues were discussed in a telephonic interview with Applicant's

representative, Mr. David Sigmond, on September 10, 2004:

a. Applicant had previously filed two petitions relating respectively to objections to the

specification and drawings. (See postcard filing receipt dated 9/2/03.) While the

examiner personally remembers seeing these petitions, they have been misplaced by the

Office. Applicant's representative and the examiner discussed the objections upon which

these petitions were based, and the examiner agreed that these objections were improper.

Accordingly, the outstanding objections to the drawings and specification are withdrawn

and the petitions are rendered moot.

b. Applicant had also filed an amendment that was also misplaced. (See postcard filing

receipt dated 9/2/03.) Applicant has incorporated this prior amendment to the

specification into the most recent amendment filed 9/10/04. As such, the issue of the

missing prior amendment is also moot.

c. Applicant has agreed to file formal drawings, including a corrected label "143" that

was erroneously labeled as "144." The examiner agreed that these changes would be

proper.

Allowable Subject Matter

2. Claims 1-120 are allowed.

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3. The following is an examiner's statement of reasons for allowance: it was generally known to form IC packages wherein the chip includes ball leads or "terminals" that extend through the bottom of the package or "housing" and also include leads that extend through the side periphery of the package, and wherein the terminals and leads are electrically connected to IC pads (see e.g., Washida '135, FIG 2). However, a search of the relevant prior art failed to disclose or reasonably suggest such a device further having at least the following features:

- a. a two-piece housing structure wherein the first and second housing portions are not integral (e.g., claim 1);
- b. a housing for such a device wherein the bottom surface of the insulative housing includes a peripheral portion adjacent to the side surfaces and a central portion within the peripheral portion and spaced from the side surfaces, wherein the peripheral portion protrudes downwardly from the central portion (e.g., claim 21); or restated, wherein the central portion is recessed relative to the peripheral portion (e.g., claim 31); or
- c. providing within such a device a terminal that protrudes downwardly from and is integral with the routing line (e.g., claim 61).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Washida et al. '135
- b. Chew et al. '388.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. William Baumeister whose telephone number is (571) 272-1722. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

B. William Baumeister Primary Examiner

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B.WILLIAM BAUMEISTER
PRIMARY EXAMINER

September 10, 2004